

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HLC-70

Revision date: 25.02.2021

Product code:

Page 1 of 15

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

HLC-70

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Cleaner
Industrial uses

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	HOBART GmbH	
Street:	Robert-Bosch-Strasse 17	
Place:	D-77656 Offenburg	
Telephone:	+49 (0) 781.600-0	Telefax: +49 (0) 781.600-23 19
e-mail:	info@hobart.de	
Internet:	www.hobart.de	
Responsible Department:	Dr. Gans-Eichler Chemieberatung GmbH Otto-Hahn-Str. 36 D-48161 Muenster	e-mail: info@tge-consult.de Tel.: +49(0)2534 6441185 www.tge-consult.de

1.4. Emergency telephone number:

Giftnotruf (Poison Center) Berlin: +49 (0) 30 30686700

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
Substance or mixture corrosive to metals: Met. Corr. 1
Acute toxicity: Acute Tox. 4
Skin corrosion/irritation: Skin Corr. 1A
Serious eye damage/eye irritation: Eye Dam. 1
Hazard Statements:
May be corrosive to metals.
Harmful if swallowed.
Causes severe skin burns and eye damage.
Causes serious eye damage.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

potassium hydroxide; caustic potash
tetrasodium ethylene diamine tetraacetate**Signal word:** Danger**Pictograms:****Hazard statements**

H290 May be corrosive to metals.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HLC-70

Revision date: 25.02.2021

Product code:

Page 2 of 15

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
1310-58-3	potassium hydroxide; caustic potash			15 - < 25 %
	215-181-3	019-002-00-8	01-2119487136-33	
	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A; H290 H302 H314			
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether			5 - < 10 %
	203-539-1	603-064-00-3	01-2119457435-35	
	Flam. Liq. 3, STOT SE 3; H226 H336			
90170-43-7	β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts			3 - < 5 %
	290-476-8		01-2119976233-35	
	Eye Irrit. 2; H319			
64-02-8	tetrasodium ethylene diamine tetraacetate			1 - < 3 %
	200-573-9	607-428-00-2	01-2119486762-27	
	Acute Tox. 4, Acute Tox. 4, Eye Dam. 1, STOT RE 2; H332 H302 H318 H373			
5064-31-3	trisodium nitrilotriacetate			0,1 - < 0,25 %
	225-768-6	607-620-00-6	01-2119519239-36	
	Carc. 2, Acute Tox. 4, Eye Irrit. 2; H351 H302 H319			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
1310-58-3	215-181-3	potassium hydroxide; caustic potash	15 - < 25 %
	oral: LD50 = 333 mg/kg Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2		
107-98-2	203-539-1	1-methoxy-2-propanol; monopropylene glycol methyl ether	5 - < 10 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg		
90170-43-7	290-476-8	β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts	3 - < 5 %
	oral: LD50 = >2000 mg/kg		
64-02-8	200-573-9	tetrasodium ethylene diamine tetraacetate	1 - < 3 %



Safety Data Sheet

according to Regulation (EC) No 1907/2006

HLC-70

Revision date: 25.02.2021

Product code:

Page 3 of 15

	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = 1780 mg/kg		
5064-31-3	225-768-6	trisodium nitrilotriacetate	0,1 - < 0,25 %
	oral: LD50 = 1740 mg/kg Carc. 2; H351: >= 5 - 100		

Labelling for contents according to Regulation (EC) No 648/2004

< 5 % amphoteric surfactants, < 5 % EDTA and salts thereof, < 5 % non-ionic surfactants, < 5 % NTA (nitrilotriacetic acid) and salts thereof.

Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician. In the case of lung irritation: Primary treatment using corticoide spray, eg. Auxiloson spray, Pulmicort-dosage-spray. (Auxiloson and Pulmicort are registered trademarks).

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Observe risk of aspiration if vomiting occurs. Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

4.2. Most important symptoms and effects, both acute and delayed

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Sand. Foam. Carbon dioxide (CO₂). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

Unsuitable extinguishing media

High power water jet

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO₂) Nitrogen oxides (NO_x).

Explosion risk in case of fire.

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HLC-70

Revision date: 25.02.2021

Product code:

Page 4 of 15

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Co-ordinate fire-fighting measures to the fire surroundings.
Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. (See section 8.)

Conditions to avoid: aerosol or mist formation

Avoid contact with skin, eyes and clothes.

Take precautionary measures against static discharge. Do not eat, drink or smoke when using this product.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Further information on handling

Advices on general occupational hygiene: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Organic peroxides. Self-reactive substances and mixtures. Radioactive substances. Infectious substances.

Further information on storage conditions

Recommended storage temperature: 2 - 25°C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HLC-70

Revision date: 25.02.2021

Product code:

Page 5 of 15

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
107-98-2	1-Methoxypropan-2-ol	100	375		TWA (8 h)	WEL
		150	560		STEL (15 min)	WEL
1310-58-3	Potassium hydroxide	-	2		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
1310-58-3	potassium hydroxide; caustic potash			
	Worker DNEL, long-term	inhalation	local	1 mg/m ³
	Consumer DNEL, long-term	inhalation	local	1 mg/m ³
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether			
	Worker DNEL, long-term	inhalation	systemic	369 mg/m ³
	Worker DNEL, acute	inhalation	systemic	553,5 mg/m ³
	Worker DNEL, acute	inhalation	local	553,5 mg/m ³
	Worker DNEL, long-term	dermal	systemic	183 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	43,9 mg/m ³
	Consumer DNEL, long-term	dermal	systemic	78 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	33 mg/kg bw/day
90170-43-7	β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts			
	Worker DNEL, long-term	inhalation	systemic	980 mg/m ³
	Worker DNEL, long-term	dermal	systemic	2,67 mg/kg bw/day
64-02-8	tetrasodium ethylene diamine tetraacetate			
	Worker, long-term	inhalation	local	1,5 mg/m ³
	Worker, acute	inhalation	local	3 mg/m ³
	Consumer, long-term	inhalation	local	0,6 mg/m ³
	Consumer, acute	inhalation	local	1,2 mg/m ³
	Consumer, long-term	oral	systemic	25 mg/kg bw/day
5064-31-3	trisodium nitrilotriacetate			
	Worker, long-term	inhalation	systemic	3,5 mg/m ³
	Worker, acute	inhalation	systemic	5,25 mg/m ³
	Consumer, acute	inhalation	systemic	1,75 mg/m ³
	Consumer, long-term	oral	systemic	0,5 mg/kg bw/day
	Consumer, acute	oral	systemic	0,5 mg/kg bw/day

PNEC values

CAS No	Substance	Environmental compartment	Value
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether		



Safety Data Sheet

according to Regulation (EC) No 1907/2006

HLC-70

Revision date: 25.02.2021

Product code:

Page 6 of 15

Freshwater	10 mg/l
Freshwater (intermittent releases)	100 mg/l
Marine water	1 mg/l
Marine water (intermittent releases)	100 mg/l
Freshwater sediment	52,3 mg/kg
Marine sediment	5,2 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/kg
Soil	4,59 mg/kg
90170-43-7	β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts
Freshwater	0,1 mg/l
Freshwater (intermittent releases)	0,1 mg/l
Marine water	0,01 mg/l
Micro-organisms in sewage treatment plants (STP)	0,3 mg/l
64-02-8	tetrasodium ethylene diamine tetraacetate
Freshwater	2,2 mg/l
Marine water	0,22 mg/l
Micro-organisms in sewage treatment plants (STP)	43 mg/l
Soil	0,72 mg/kg
5064-31-3	trisodium nitrilotriacetate
Freshwater	0,93 mg/l
Marine water	0,093 mg/l
Micro-organisms in sewage treatment plants (STP)	270 mg/l

8.2. Exposure controls



Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

Protective and hygiene measures

When using do not eat, drink or smoke.

Eye/face protection

Wear eye/face protection. BS/EN 166

Hand protection

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time \geq 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time \geq 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HLC-70

Revision date: 25.02.2021

Product code:

Page 7 of 15

Breakthrough time ≥ 8 h

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Suitable protective clothing: Lab apron. Material, acid-resistant (DIN EN 13034).

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

- Exceeding exposure limit values
- Insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). Type: A2 B2

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	amber
Odour:	characteristic
pH-Value:	>13 (10 g/L)

Changes in the physical state

Melting point:	No information available.
Boiling point or initial boiling point and boiling range:	120 °C
Sublimation point:	No information available.
Softening point:	No information available.
Pour point:	No information available.
Flash point:	>100 °C
Sustaining combustion:	No data available

Flammability

Solid/liquid:	No information available.
Gas:	No information available.

Explosive properties

none

Lower explosion limits:	No information available.
Upper explosion limits:	No information available.
Auto-ignition temperature:	No information available.

Self-ignition temperature

Solid:	No information available.
Gas:	No information available.

Decomposition temperature:	No information available.
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Safety Data Sheet

according to Regulation (EC) No 1907/2006

HLC-70

Revision date: 25.02.2021

Product code:

Page 8 of 15

Oxidizing properties

none

Vapour pressure:
(at 20 °C) No information available.Vapour pressure:
(at 50 °C) No information available.Density (at 20 °C): 1,22 g/cm³

Bulk density: No information available.

Water solubility: easily soluble.

Solubility in other solvents

No information available.

Partition coefficient n-octanol/water: No information available.

Viscosity / dynamic:
(at 20 °C) < 100 mPa·s

Viscosity / kinematic: No information available.

Flow time: No information available.

Relative vapour density: No information available.

Evaporation rate: No information available.

Solvent separation test: No information available.

Solvent content: No information available.

9.2. Other information

Solid content: No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

May be corrosive to metals.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

The product develops hydrogen in an aqueous solution in contact with metals.

Reacts violently with water.

Refer to chapter 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat. Halogenes.

Keep away from: Lead. Aluminium. copper. Tin. Sulfur.

10.5. Incompatible materials

Materials to avoid: Strong acid, Oxidizing agents, strong. material, combustible.

10.6. Hazardous decomposition productsCan be released in case of fire: Carbon monoxide Carbon dioxide (CO₂) Nitrogen oxides (NO_x). Flammable gases.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicokinetics, metabolism and distribution**

No information available.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HLC-70

Revision date: 25.02.2021

Product code:

Page 9 of 15

Acute toxicity

Harmful if swallowed.

ATEmix calculated

ATE (oral) 1303,4 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1310-58-3	potassium hydroxide; caustic potash				
	oral	LD50 333 mg/kg	Rat	ECHA	
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether				
	oral	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rat	ECHA Dossier	
90170-43-7	β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts				
	oral	LD50 >2000 mg/kg	Rat	ECHA Dossier	OECD Guideline 423
64-02-8	tetrasodium ethylene diamine tetraacetate				
	oral	LD50 1780 mg/kg	Rat	ECHA Dossier	
	inhalation vapour	ATE 11 mg/l			
	inhalation aerosol	ATE 1,5 mg/l			
5064-31-3	trisodium nitrilotriacetate				
	oral	LD50 1740 mg/kg	Rat	ECHA Dossier	OECD Guideline 401

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

tetrasodium ethylene diamine tetraacetate:

Developmental toxicity/teratogenicity: Species: Rat. Exposure duration: 20d. Result: NOAEL >= 1374 mg/kg bw/day . Literature information: ECHA Dossier

trisodium nitrilotriacetate:

In-vivo mutagenicity : Method: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test). Result / evaluation: negative. ; Reproductive toxicity: Method: OECD 416. Species: Rat. Exposure duration: 8 w. Result: NOAEL 450 mg/kg bw/day Literature information: ECHA Dossier

β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts:

In vitro mutagenicity/genotoxicity: Method: OECD 476. Result / evaluation: negative. ; Reproductive toxicity: : Method: OECD 422. Species: Rat. Exposure duration: 28d. Result: NOAEL > 43 mg/kg bw/day. Literature information: ECHA Dossier

1-methoxy-2-propanol; monopropylene glycol methyl ether:

In-vitro mutagenicity: Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test); Result: negative. Literature information: ECHA Dossier; Carcinogenicity: Method: [inhalative, OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)]; Species: Mouse.; Exposure duration: 2 years; Result:

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HLC-70

Revision date: 25.02.2021

Product code:

Page 10 of 15

NOAEL = 1000 ppm; Literature information: ECHA Dossier; Reproductive toxicity: Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) ;Species: Rat; Result: NOAEL = 300 mg/kg; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Method: [inhalative, OECD Guideline 414 (Prenatal Developmental Toxicity Study)]; Species: Rabbit; Exposure duration: 29 d. Result: NOAEL = 1500 mg/m³; Literature information: ECHA Dossier

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

trisodium nitrilotriacetate:

Subacute oral toxicity : Method: - Species: Rat. Exposure duration: 28d. Result: NOAEL = 9 mg/kg bw/day.

Literature information: ECHA Dossier

β -Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts:

Subacute oral toxicity: Method: OECD 422. Species: Rat. Exposure duration: 28d. Result: NOAEL = 43 mg/kg bw/day. Literature information: ECHA Dossier

1-methoxy-2-propanol; monopropylene glycol methyl ether:

Subchronic inhalation toxicity: Method OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day); Species: Rabbit ; Exposure duration: 90 d; Result: NOAEL = 100 ppm. Literature information: ECHA Dossier; Subacute dermal toxicity: Method: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study); Species: Rabbit. ; Exposure duration: 14 d; Result: NOAEL = 1000 mg/kg; Literature information: ECHA Dossier

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

12.1. Toxicity

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether					
	Acute fish toxicity	LC50 18800-23000 mg/l	96 h	Pimephales promelas	ECHA Dossier	
	Acute algae toxicity	ErC50 > 1000 mg/l	96 h	Pseudokirchnerella subcapitata	ECHA Dossier	
	Acute crustacea toxicity	EC50 23300 mg/l	48 h	Daphnia magna	ECHA Dossier	
	Acute bacteria toxicity	(>1000 mg/l)	3 h	activated sludge	ECHA Dossier	
90170-43-7	β -Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts					
	Acute algae toxicity	ErC50 ca. 5,5 mg/l	72 h	Chlorella vulgaris	ECHA Dossier	
	Crustacea toxicity	NOEC ca. 10 mg/l	21 d	Daphnia magna	ECHA Dossier	OECD Guideline 211
	Acute bacteria toxicity	(ca. 300 mg/l)	3 h	activated sludge	ECHA Dossier	OECD Guideline 209
64-02-8	tetrasodium ethylene diamine tetraacetate					
	Acute fish toxicity	LC50 121 mg/l	96 h	Lepomis macrochirus	ECHA Dossier	
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Desmodesmus subspicatus	ECHA Dossier	

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HLC-70

Revision date: 25.02.2021

Product code:

Page 11 of 15

5064-31-3	trisodium nitrilotriacetate						
	Acute fish toxicity	LC50	114 mg/l	96 h	Pimephales promelas	Wat Res 8: 187-193. (1974)	APHA
	Acute algae toxicity	ErC50 mg/l	> 91,5	72 h	Desmodesmus subspicatus	ECHA Dossier	EU Method C.3
	Fish toxicity	NOEC mg/l	> 54	224 d	Pimephales promelas	Wat Res 8: 187-193 (1974)	
	Crustacea toxicity	NOEC	9,3 mg/l	147 d	other aquatic arthropod: Gammarus pseudolimnaeus	Wat Res 8: 187-193. (1974)	

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether			
	OECD 301A / ISO 7827 / EEC 92/69 annex V, C.4-A	96%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
90170-43-7	β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts			
	OECD Guideline 301 B	96%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	-0,437
90170-43-7	β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts	< 1
5064-31-3	trisodium nitrilotriacetate	-10,08

BCF

CAS No	Chemical name	BCF	Species	Source
64-02-8	tetrasodium ethylene diamine tetraacetate	1,8	Lepomis macrochirus	ECHA Dossier

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

HLC-70

Revision date: 25.02.2021

Product code:

Page 12 of 15

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

List of Wastes Code - used product

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1814
14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Classification code: C5
 Limited quantity: 1 L
 Excepted quantity: E2
 Transport category: 2
 Hazard No: 80
 Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number: UN 1814
14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Classification code: C5
 Limited quantity: 1 L
 Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number: UN 1814
14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION



Safety Data Sheet

according to Regulation (EC) No 1907/2006

HLC-70

Revision date: 25.02.2021

Product code:

Page 13 of 15

14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8

Marine pollutant: NO
 Special Provisions: -
 Limited quantity: 1 L
 Excepted quantity: E2
 EmS: F-A, S-B
 Segregation group: 18 - alkalis

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1814
14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Special Provisions: A3 A803
 Limited quantity Passenger: 0.5 L
 Passenger LQ: Y840
 Excepted quantity: E2
 IATA-packing instructions - Passenger: 851
 IATA-max. quantity - Passenger: 1 L
 IATA-packing instructions - Cargo: 855
 IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Safe handling: see section 7
 Personal protection equipment: see section 8

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

2010/75/EU (VOC): 5%
 2004/42/EC (VOC): No information available.
 Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)
 The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
 REACH 1907/2006 Appendix XVII, No (mixture): 3

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HLC-70

Revision date: 25.02.2021

Product code:

Page 14 of 15

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

potassium hydroxide; caustic potash
1-methoxy-2-propanol; monopropylene glycol methyl ether
β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts
tetrasodium ethylene diamine tetraacetate
trisodium nitrilotriacetate

SECTION 16: Other information

Changes

Rev. : 1,0 - Initial release 25.09.2017

Rev. : 2,0 - Changes in chapter: 2, 3, 6, 8, 9, 10, 11, 12, 15, 16; 25.02.2021

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency

EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

NLP: No-Longer Polymers

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HLC-70

Revision date: 25.02.2021

Product code:

Page 15 of 15

VOC: Volatile Organic Compounds

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Acute Tox. 4; H302	Calculation method
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

Further Information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)